



Department of Energy

Richland Operations Office

P.O. Box 550

Richland, Washington 99352

0048564

97-EAP-661

Ms. Debra McBaugh, Section Head
Environmental Radiation Section
State of Washington
Department of Health
P.O. Box 47827
Olympia, Washington 98504-7827

SEP 16 1997

Mr. David Grant
Aquatic Resources Division
State of Washington
713 East Bowers Road
Ellensburg, Washington 98926


Dear Ms. McBaugh and Mr. Grant:

MONTHLY EFFLUENT RADIONUCLIDES MONITORING REPORT - JULY 1997

Pursuant to Section 4.8(b) of the Aquatic Lands Sewer Outfall Lease No. 20-013357, please find enclosed the 300 Area Treated Effluent Disposal Facility Monthly Effluent Radionuclides Monitoring Reports for the reporting period of June 26, 1997, through July 31, 1997, as shown in the attached table. No excursions occurred during this reporting period.

If you have any questions, please contact Alex Teimouri, of my staff on (509) 376-6222.

Sincerely,

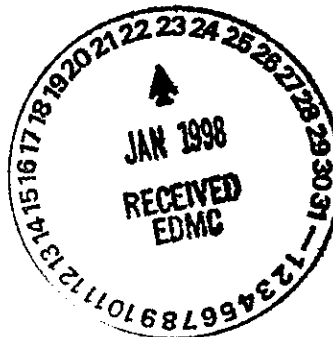

James E. Rasmussen, Director
Environmental Assurance, Permits,
and Policy Division

EAP:AET

Enclosures

cc w/encls:

W. Adair, FDH
M. Ballinger, PNNL
R. Danielson, DOH
L. Diediker, RFSH
D. Halgren, RFSH
T. Moan, EPA
D. Powaukee, NPT
E. Aromi, RFSH
D. Sherwood, EPA
C. Mattsson, FDH
H. Tilden, PNNL
J. Wilkinson, CTUIR
R. Jim, YIN
Permit Coordinator, Ecology



Hanford Site 300 Area Treated Effluent Disposal Facility
July 1997

Analysis	Result ⁽²⁾ Bq L ⁻¹ (pCi L ⁻¹)	% Counting Error	State Standard pCi L ⁻¹
GEA ⁽¹⁾ - ⁶⁰ Co	<-0.02 (<-0.47)	336%	S 50,000 ⁽³⁾ I 30,000
- ¹³⁷ Cs	<-0.70 (<-0.03)	280%	S 20,000 I 40,000
Total Alpha	<-0.02 (<-0.61)	150%	15 ⁽⁴⁾
Total Beta	<-0.02 (<-0.82)	100%	50 ⁽⁴⁾
Tritium	<-3.59 (<-97)	60%	20,000 ⁽⁴⁾

⁽¹⁾GEA: Gamma Energy Analysis

⁽²⁾Bq L⁻¹: Becquerel per liter; pCi L⁻¹: picoCurie per liter.
There are 37 X 10⁹ Becquerel per Curie.

⁽³⁾Soluble (S) and Insoluble (I) Standards for ⁶⁰Co and ¹³⁷Cs from
Washington Administrative Code 246-221-290 (Table II).

⁽⁴⁾Standards for total alpha, total beta and tritium from Department
of Natural Resources Aquatic Resources Lease 20-013357 per the
Federal Drinking Water Standard (40 Code of Federal Regulations,
Part 141).

